

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A storage-type data broadcast service system for transmitting a first transport stream constituting at least one content and containing a plurality of packet data having a program clock reference as reference clock information when reproducing the content, at a second transfer rate different from a first transfer rate, which is determined by the reference clock information, and extracting the plurality of packet data composing the content from the transmitted transport stream to generate and store a second transport stream, said system comprising:

a transmitter for transmitting the plurality of packet data composing the content at the second transfer rate;; and

a receiver for receiving the transmitted first transport stream and detecting a transfer rate ratio between the first transfer rate and the second transfer rate to generate the second transport stream based on the detected transfer rate ratio.

2. (Currently Amended) The storage-type data broadcast service system according to claim 1, wherein ~~the~~ said receiver comprises:

a ~~PCR~~ program clock reference extractor for extracting the program clock reference contained in the first transport stream;;

~~an STC~~ a system time clock recoverer for recovering, based on the extracted program clock reference, a system time clock which is a processing reference clock for the packet data;;

a ~~PCR~~ program clock reference correction factor calculator for detecting the transfer rate ratio based on two contiguous ~~said~~ extracted program clock references, and deriving, based on the detected transfer rate ratio, a correction factor for correcting the extracted program clock reference so as to match the second transfer rate;; and

a ~~PCR~~ program clock reference corrector for correcting the extracted program clock reference based on the derived correction factor,

wherein ~~the STC~~ said system time clock recoverer is feedback-controlled to recover a system time clock based on the corrected program clock reference.

3. (Currently Amended) The storage-type data broadcast service system according to claim 1, wherein the receiver comprises:

a ~~PCR-program clock reference~~ extractor for extracting the program clock reference contained in the first transport stream;

~~an-STC~~ a system time clock recoverer for recovering, based on the extracted program clock reference, a system time clock which is a processing reference clock for the packet data;

~~an-STC/PCR~~ a system time clock/program clock reference rate ratio calculator for deriving, based on the extracted program clock reference and the recovered system time clock, a correction factor for correcting the extracted program clock reference so as to match the second transfer rate; and

a ~~PCR-program clock reference~~ corrector for correcting the extracted program clock reference based on the correction factor,

wherein the ~~STC-said system time clock~~ recoverer is feedback-controlled to recover a system time clock based on the corrected program clock reference.

4. (Currently Amended) The storage-type data broadcast service system according to claim 1, wherein the receiver comprises:

a ~~PCR-program clock reference~~ extractor for extracting the program clock reference contained in the first transport stream;

a ~~PCR-program clock reference~~ specifier for causing the ~~PCR-said program clock reference~~ extractor to extract, as a standard program clock reference, the reference clock contained in the first transport stream and contained in packet data transferred at the first transfer rate; and

~~an-STC~~ a system time clock recoverer for recovering, based on the extracted standard program clock reference, a system time clock which is a processing reference clock for the packet data.

5. (Currently Amended) The storage-type data broadcast service system according to claim 1,

wherein ~~the said~~ transmitter comprises a transfer rate ratio appender for assigning the transfer rate ratio to the first transport stream TS₁; ~~and~~

wherein ~~the said~~ receiver comprises:

a ~~PCR-program clock reference~~ extractor for extracting the program clock reference contained in the first transport stream,

~~an STC~~ a system time clock recoverer for recovering, based on the extracted program clock reference, a system time clock which is a processing reference clock for the packet data,

a ~~PCR-program clock reference~~ correction factor generator for extracting the transfer rate ratio from the first transport stream, and deriving, based on the extracted transfer rate ratio, a correction factor for correcting the extracted program clock reference so as to match the second transfer rate, and

a ~~PCR-program clock reference~~ corrector for correcting the extracted program clock reference based on the correction factor; ~~and~~

wherein ~~the STC~~ said system time clock recoverer is feedback-controlled to recover a system time clock based on the corrected program clock reference.

6. (New) A receiver for receiving a first transport stream constituting at least one content and containing a plurality of packet data having a program clock reference as reference clock information when reproducing the content, at a second transfer rate different from a first transfer rate which is determined by the reference clock information, and extracting the plurality of packet data composing the content from the received transport stream to generate and store a second transport stream,

wherein said receiver is operable to detect a transfer rate ratio between the first transfer rate and the second transfer rate, and to generate the second transport stream based on the detected transfer rate ratio.

7. (New) The receiver according to claim 6, wherein said receiver comprises:

a program clock reference extractor for extracting the program clock reference contained in the first transport stream;

a system time clock recoverer for recovering, based on the extracted program clock reference, a system time clock which is a processing reference clock for the packet data,

a program clock reference correction factor calculator for detecting the transfer rate ratio based on two contiguous extracted program clock references, and deriving, based on the detected transfer rate ratio, a correction factor for correcting the extracted program clock reference so as to match the second transfer rate; and

a program clock reference corrector for correcting the extracted program clock reference based on the correction factor,

wherein said system time clock recoverer is feedback-controlled to recover a system time clock based on the corrected program clock reference.

8. (New) The receiver according to claim 6, wherein the receiver comprises:

a program clock reference extractor for extracting the program clock reference contained in the first transport stream;

a program clock reference recoverer for recovering, based on the extracted program clock reference, a system time clock which is a processing reference clock for the packet data;

a system time clock/program clock reference rate ratio calculator for deriving, based on the extracted program clock reference and the recovered system time clock, a correction factor for correcting the extracted program clock reference so as to match the second transfer rate; and

a program clock reference corrector for correcting the extracted program clock reference based on the correcting factor,

wherein said system time clock recoverer is feedback-controlled to recover a system time clock based on the corrected reference.

9. (New) The receiver according to claim 6, wherein said receiver comprises:

a program clock reference extractor for extracting the program clock reference contained in the first transport stream;

a program clock reference specifier for causing said program clock reference extractor to extract, as a standard program clock reference, the reference clock contained in the first transport stream and contained in packet data transferred at the first transfer rate; and

a system time clock recoverer for recovering, based on the extracted standard program clock reference, a system time clock which is a processing reference clock for the packet data.